



2541 East University Drive • Phoenix AZ 85034 • 602-267-1900 • Fax 602-267-1973

January 29, 2015

Ms. Christine Medley
Bio Defense Specialist / PHEP Coordinator
FMIT Office of Emergency Response
500 Merriman Avenue
Needles, California 92363

Re: Fourth Quarter 2014 Groundwater Monitoring Report
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

EPA Site ID FTMO-005
EN TECH Project No. 2789

Dear Ms. Medley:

Enclosed is the ***Fourth Quarter 2014 Groundwater Monitoring Report*** (Report) for the above referenced facility. Included within is a description of the activities performed by Environmental Technology, Inc. (EN TECH®) on behalf of the Fort Mojave Indian Tribe from October 2014 through December 2014. Those activities included groundwater monitoring, free product checks, and groundwater sampling.

If you have any questions or require additional information with regard to this project, please contact me at your convenience.

Sincerely,

A handwritten signature in blue ink, appearing to read "Carney D. Miller".

Carney D. Miller, AEP, CIPS
Senior Project Manager

Enclosures

cc: File



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FOURTH QUARTER 2014 GROUNDWATER MONITORING REPORT

**Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440**

EPA Site ID FTMO-005

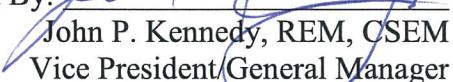
EN TECH Project No. 2789

January 29, 2015

Prepared By:


Carney D. Miller, AEP, CIPS
Senior Project Manager

Reviewed By:


John P. Kennedy, REM, CSEM
Vice President/General Manager

Reviewed By:



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INTRODUCTION

This Report documents and discusses the activities performed by Environmental Technology, Inc. (EN TECH®) at the Fort Mojave Smoke Shop from October 2014 through December 2014. The Fort Mojave Smoke Shop is located at 8501 South Highway 95, Mohave Valley, Arizona. See Figures 1 and 2 for a Site Vicinity Map and a Site Plan drawing. Field activities performed by EN TECH during the reporting period included the field measurement of groundwater levels, measurement of free product levels, and sampling and laboratory analysis of groundwater from the facility's monitoring wells. The field activities were performed as requested in US EPA Region IX correspondence ***Long-term Release Response and Corrective Action for UST Systems-Groundwater Monitoring Required, Fort Mojave Smoke Shop, Mohave Valley, AZ (EPA Site ID: FTMO-005)***, dated January 14, 2014.

WATER LEVEL MONITORING

EN TECH personnel measured water levels in each of the facility's monitoring wells on October 28, November 21, and December 22, 2014. Water level measurements were made to a surveyed reference point, located at the north side of the top of each well casing, using a product/water interface probe or equivalent device. Water level measurements and calculations of groundwater elevations are summarized in Table 1. Figure 3 presents a hydrograph of groundwater elevations. Figures 4, 5, and 6 contain groundwater contour maps for the October 28, November 21, and December 22, 2014 groundwater elevations.

EVALUATION OF WATER LEVEL DATA

For the reporting period, the maximum groundwater elevation (GWE) of 465.07 feet above mean sea level (amsl) occurred in MW-3 on October 28. The minimum GWE of 464.50 feet amsl occurred in MW-6 on December 22. The maximum average GWE of 465.01 feet amsl occurred on October 28, while the minimum average of 464.54 feet amsl occurred on December 22.

Table 2 is a summary of groundwater gradient calculations for the entire project. As Table 2 indicates, the average groundwater gradient, for this reporting period, ranged from south 41.3°

east at 0.00037 feet per foot on December 22, 2014, to south 73.3° east at 0.00056 feet per foot on October 28, 2014. For all monitoring events, the groundwater flow direction averages south 55.2° east with a maximum variance of 45.1° clockwise of average and 59.3° counterclockwise of average.

GROUNDWATER SAMPLING

EN TECH collected compliance groundwater samples from wells MW-1 through MW-7 on December 22, 2014. Prior to sampling, EN TECH personnel measured the depth-to-water and total depth of each monitoring well, calculated the casing volume, and purged three casing volumes using a freshly decontaminated submersible pump and new polyethylene hose. While purging, EN TECH personnel collected samples from the pump discharge to measure and record pH, conductivity, and temperature using a calibrated field grade meter designed for the purpose. The purge water was collected into 55-gallon steel drums and staged on-site for pending disposal. Following purging, samples were collected for laboratory analysis by hand-bailing using a new polypropylene bailer for each well. The contents of the bailer were emptied into laboratory-supplied sample containers. Groundwater samples were labeled and stored in an ice chest containing sufficient ice to reduce and maintain sample temperature at 4 degrees Celsius. Samples were transported and relinquished to Orange Coast Analytical Laboratory (Orange Coast) using the laboratory-supplied chain-of-custody documentation.

All samples collected from the monitoring wells for laboratory analysis were analyzed by Orange Coast for gasoline-ranged organic (GRO) compounds using EPA Method 8015D and for volatile organic compounds (VOCs) using EPA Method 8260B. Copies of the laboratory reports and chain-of-custody documentation are provided in Appendix A. Field parameter measurements of pH, conductivity, and temperature for the December sample event can be found in Appendix B. A summary of groundwater monitoring data for the entire project can be found in Appendix C. The summary includes water and product level measurements, calculations of groundwater elevation, and analytical results for the chemicals-of-concern.

EVALUATION OF GROUNDWATER SAMPLE DATA

For the December 2014 sampling event, the Orange Coast laboratory report indicates that no GROs or VOCs were detected in the samples collected from MW-2, 3, 4, 6, and 7. This data is consistent with previous laboratory analysis. The reported GRO concentrations in the samples collected from MW-1 and MW-5 were 25,000 micrograms per liter ($\mu\text{g}/\text{L}$) and 2100 $\mu\text{g}/\text{L}$, respectively. Benzene, ethylbenzene, and toluene were reported at concentrations of 3,200 $\mu\text{g}/\text{L}$, 1,600 $\mu\text{g}/\text{L}$, and 8,900 $\mu\text{g}/\text{L}$, respectively, in the sample from MW-1. Each of these concentrations exceeds their respective federal Maximum Contaminant Level (MCL). Xylenes were reported at a concentration of 2,100 $\mu\text{g}/\text{L}$, which is below the MCL. 1,2,4-trimethylbenzene was reported at a concentration of 420 $\mu\text{g}/\text{L}$; however, this constituent does not have an MCL. No other constituents were reported in the sample from MW-1 although there were elevated detection limits due to sample dilution required for analysis. Benzene was reported at a concentration of 570 $\mu\text{g}/\text{L}$ in the sample from MW-5. This exceeds the federal MCL for benzene. Ethylbenzene and xylenes were reported at concentrations of 290 $\mu\text{g}/\text{L}$ and 370 $\mu\text{g}/\text{L}$, respectively. These are below their respective MCLs. 1,2,4-Trimethylbenzene and 1,3,5-trimethylbenzene were also reported in the sample from MW-5 at concentrations of 140 $\mu\text{g}/\text{l}$ and 32 $\mu\text{g}/\text{L}$, respectively. Neither of these constituents has an MCL. No other constituents were reported above laboratory minimum reporting limits. EN TECH notes that the chemicals-of-concern concentrations in MW-5, from the December 2014 sampling event, are the highest reported to date. This may be an indication that the groundwater contaminant plume is migrating beyond the source area.

The groundwater analytical data from December 22, 2014 is presented in Table 3. The groundwater analytical data from the September 15, 2014 sampling event is presented in Table 4 for comparison. Isoconcentration maps, depicting the reported GRO and benzene concentrations from the December sampling event, are presented in Figures 7 and 8, respectively.

FREE PRODUCT

Free product has been periodically detected in MW-1. Previous free product recovery activities included the use of passive skimmers and hydrophobic absorbent socks. No free product was detected with the interface probe, nor was any free product recovered during this reporting period. Free product has not been detected in MW-1 since December 18, 2013. EN TECH will continue to monitor for the presence of free product and conduct additional free product recovery activities as needed.

FUTURE FIELD ACTIVITIES

EN TECH will continue to monitor depth-to-water and check for free product in all on-site groundwater monitoring wells, on a monthly basis. Should free product be detected in any of the wells, free product recovery activities will be conducted to the extent practicable. Groundwater sampling will be conducted on a quarterly basis. The next quarterly groundwater sampling event is scheduled to be conducted in March 2015. The next quarterly groundwater monitoring report is scheduled to be submitted in April 2015.

LIMITATIONS

Environmental Technology, Inc. has performed the tasks outlined in this project report in accordance with generally accepted practices and consistent with the level of work performed by other consultants providing similar services in Arizona at the time of the investigation. No warranty, expressed or implied, is made. This report is not a complete chemical characterization of the property, and is not to be construed in the whole or as part as "due diligence inquiry" as specified in the Superfund Amendment and Reauthorization Act of 1986, (SARA), as amended.

TABLES

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	TOS	6	6	6	7	7	7	8					
	TD	37	36	37	38	37	37	38					
10/28/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	16.73	17.01	16.59	16.72	16.41			16.69	16.41	MW-5	17.01	MW-2
	DTP	16.69							16.69	16.69	MW-1	16.69	MW-1
	PT	0.04							0.04	0.04	MW-1	0.04	MW-1
	CDTW	16.70							16.70	16.70	MW-1	16.70	MW-1
	GWE	465.83	465.95	465.99	465.97	465.92			465.93	465.83	MW-1	465.99	MW-3
11/11/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	16.84	17.24	16.84	16.98	16.66			16.91	16.66	MW-5	17.24	MW-2
	DTP	16.81							16.81	16.81	MW-1	16.81	MW-1
	PT	0.03							0.03	0.03	MW-1	0.03	MW-1
	CDTW	16.82							16.82	16.82	MW-1	16.82	MW-1
	GWE	465.71	465.72	465.74	465.71	465.67			465.71	465.67	MW-5	465.74	MW-3
12/09/13	SE	482.53	482.96	482.58	482.69	482.33							
	DTW	17.23	17.63	17.24	17.38	17.04			17.30	17.04	MW-5	17.63	MW-2
	GWE	465.30	465.33	465.34	465.31	465.29			465.31	465.29	MW-5	465.34	MW-3
12/18/13	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.32	17.71	17.32	17.46	17.11	16.18	16.46	17.08	16.18	MW-6	17.71	MW-2
	DTP	17.27							17.27	17.27	MW-1	17.27	MW-1
	PT	0.05							0.05	0.05	MW-1	0.05	MW-1

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
 Page 1 of 3

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	CDTW	17.28							17.28	17.28	MW-1	17.28	MW-1
	GWE	465.25	465.25	465.26	465.23	465.22	465.20	465.22	465.23	465.20	MW-6	465.26	MW-3
01/07/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.50	17.90	17.53	17.67	17.31	16.39	16.66	17.28	16.39	MW-6	17.90	MW-2
	GWE	465.03	465.06	465.05	465.02	465.02	464.99	465.02	465.03	464.99	MW-6	465.06	MW-2
01/08/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.53	17.93	17.55	17.70	17.33	16.42	16.69	17.31	16.42	MW-6	17.93	MW-2
	GWE	465.00	465.03	465.03	464.99	465.00	464.96	464.99	465.00	464.96	MW-6	465.03	MW-2
02/26/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.73	18.12	17.76	17.91	17.54	16.61	16.87	17.51	16.61	MW-6	18.12	MW-2
	GWE	464.80	464.84	464.82	464.78	464.79	464.77	464.81	464.80	464.77	MW-6	464.84	MW-2
03/19/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.52	17.93	17.54	17.69	17.34	16.41	16.69	17.30	16.41	MW-6	17.93	MW-2
	GWE	465.01	465.03	465.04	465.00	464.99	464.97	464.99	465.00	464.97	MW-6	465.04	MW-3
04/10/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.56	17.97	17.58	17.73	17.39	16.47	16.74	17.35	16.47	MW-6	17.97	MW-2
	GWE	464.97	464.99	465.00	464.96	464.94	464.91	464.94	464.96	464.91	MW-6	465.00	MW-3
05/14/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.57	17.99	17.59	17.74	17.42	16.50	16.78	17.37	16.50	MW-6	17.99	MW-2
	GWE	464.96	464.97	464.99	464.95	464.91	464.88	464.90	464.94	464.88	MW-6	464.99	MW-3
06/12/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
 Page 2 of 3

Table 1. Water Level Measurements & Calculations

Date		MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Avg	Min	Well ID	Max	Well ID
	DTW	17.65	18.03	17.67	17.83	17.48	16.57	16.82	17.44	16.57	MW-6	18.03	MW-2
	GWE	464.88	464.93	464.91	464.86	464.85	464.81	464.86	464.87	464.81	MW-6	464.93	MW-2
07/22/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.04	17.44	17.06	17.23	16.88	15.96	16.21	16.83	15.96	MW-6	17.44	MW-2
	GWE	465.49	465.52	465.52	465.46	465.45	465.42	465.47	465.48	465.42	MW-6	465.52	MW-2
08/13/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	16.88	17.28	16.90	17.06	16.72	15.80	16.07	16.67	15.80	MW-6	17.28	MW-2
	GWE	465.65	465.68	465.68	465.63	465.61	465.58	465.61	465.63	465.58	MW-6	465.68	MW-2
09/15/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	16.70	17.11	16.69	16.84	16.55	15.65	15.94	16.50	15.65	MW-6	17.11	MW-2
	GWE	465.83	465.85	465.89	465.85	465.78	465.73	465.74	465.81	465.73	MW-6	465.89	MW-3
10/28/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.49	17.91	17.51	17.66	17.34	16.43	16.71	17.29	16.43	MW-6	17.91	MW-2
	GWE	465.04	465.05	465.07	465.03	464.99	464.95	464.97	465.01	464.95	MW-6	465.07	MW-3
11/21/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.69	18.11	17.72	17.87	17.52	16.60	16.88	17.48	16.60	MW-6	18.11	MW-2
	GWE	464.84	464.85	464.86	464.82	464.81	464.78	464.80	464.82	464.78	MW-6	464.86	MW-3
12/22/14	SE	482.53	482.96	482.58	482.69	482.33	481.38	481.68					
	DTW	17.99	18.39	18.01	18.16	17.81	16.88	17.16	17.77	16.88	MW-6	18.39	MW-2
	GWE	464.54	464.57	464.57	464.53	464.52	464.50	464.52	464.54	464.50	MW-6	464.57	MW-2

TOS is top of screen in feet below surface elevation.

TD is total depth in feet below surface elevation.

SE is surveyed surface elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

Avg is average value.

Min is minimum value.

Max is maximum value.

Table 1.
 Page 3 of 3

Table 2. Summary of Groundwater Gradient Calculations

Date	Max	Well ID	Min	Well ID	Magnitude	Direction	Direction	Mag Var	Dir Var
10/28/13	465.99	MW-3	465.83	MW-1	0.00069	65.5	N 65.5 E	0.00022	-59.3
11/11/13	465.74	MW-3	465.67	MW-5	0.00053	95.0	S 85 E	0.00006	-29.8
12/09/13	465.34	MW-3	465.29	MW-5	0.00036	107.7	S 72.3 E	-0.00011	-17.1
12/18/13	465.26	MW-3	465.20	MW-6	0.00028	127.4	S 52.6 E	-0.00020	2.6
01/07/14	465.06	MW-2	464.99	MW-6	0.00035	148.5	S 31.5 E	-0.00012	23.7
01/08/14	465.03	MW-2	464.96	MW-6	0.00034	143.6	S 36.4 E	-0.00013	18.8
02/26/14	464.84	MW-2	464.77	MW-6	0.00046	170.0	S 10 E	-0.00001	45.1
03/19/14	465.04	MW-3	464.97	MW-6	0.00032	132.5	S 47.5 E	-0.00015	7.6
04/10/14	465.00	MW-3	464.91	MW-6	0.00041	127.5	S 52.5 E	-0.00006	2.7
05/14/14	464.99	MW-3	464.88	MW-6	0.00051	109.9	S 70.1 E	0.00003	-14.9
06/12/14	464.93	MW-2	464.81	MW-6	0.00063	149.5	S 30.5 E	0.00015	24.7
07/22/14	465.52	MW-2	465.42	MW-6	0.00057	149.5	S 30.5 E	0.00010	24.7
08/13/14	465.68	MW-2	465.58	MW-6	0.00053	134.7	S 45.3 E	0.00005	9.9
09/15/14	465.89	MW-3	465.73	MW-6	0.00076	90.6	S 89.4 E	0.00029	-34.3
10/28/14	465.07	MW-3	464.95	MW-6	0.00056	106.7	S 73.3 E	0.00008	-18.1
11/21/14	464.86	MW-3	464.78	MW-6	0.00037	124.5	S 55.5 E	-0.00010	-0.3
12/22/14	464.57	MW-2	464.50	MW-6	0.00037	138.7	S 41.3 E	-0.00010	13.9
			Avg		0.00047	124.8	S 55.2 E		
			Min Mag Var		-0.00020				
			Max Mag Var		0.00029				
			CCW Dir Var		-59.3				
			CW Dir Var		45.1				

Min and Max Mag Var are the maximum negative and positive variation from average magnitude.

CCW Dir Var and CW Dir Var are the maximum counter clockwise and clockwise variation from average flow direction.

Table 2.
 Page 1 of 1

Table 3. Summary of Laboratory Analysis of Groundwater Samples
December 22, 2014

COCs	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Max	Well ID	MCLs
GRO	25,000	<100	<100	<100	2,100	<100	<100	25,000	MW-1	NE
Benzene	3,200	<0.50	<0.50	<0.50	570	<0.50	<0.50	3,200	MW-1	5.00
n-Butylbenzene	<200	<1.0	<1.0	<1.0	<20	<1.0	<1.0			NE
sec-Butylbenzene	<200	<1.0	<1.0	<1.0	<20	<1.0	<1.0			NE
Ethylbenzene	1,600	<1.0	<1.0	<1.0	290	<1.0	<1.0	1,600	MW-1	700
Isopropylbenzene	<200	<1.0	<1.0	<1.0	<20	<1.0	<1.0			NE
MTBE	<200	<1.0	<1.0	<1.0	<20	<1.0	<1.0			NE
Naphthalene	<600	<3.0	<3.0	<3.0	<60	<3.0	<3.0			NE
n-Propylbenzene	<200	<1.0	<1.0	<1.0	<20	<1.0	<1.0			NE
Toluene	8,900	<1.0	<1.0	<1.0	<20	<1.0	<1.0	8,900	MW-1	1,000
1,2,4-Trimethylbenzene	420	<1.0	<1.0	<1.0	140	<1.0	<1.0	420	MW-1	NE
1,3,5-Trimethylbenzene	<200	<1.0	<1.0	<1.0	32	<1.0	<1.0	32	MW-5	NE
Xylenes	2,100	<2.0	<2.0	<2.0	370	<2.0	<2.0	2,100	MW-1	10,000

All values reported in micrograms per liter.

All samples analyzed using EPA Methods 8015D and 8260B.

Bolded and italicized values exceed method reporting limits.

Bolded and shaded values exceed regulatory standards.

MCLs is Maximum Contaminant Levels.

NE means regulatory value not established.

Table 3.
 Page 1 of 1

Table 4. Summary of Laboratory Analysis of Groundwater Samples
September 15, 2014

COCs	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	Max	Well ID	MCLs
GRO	33,000	<100	<100	<100	<i>170</i>	<100	<100	33,000	MW-1	NE
Benzene	2,200	<0.50	<0.50	<0.50	22	<0.50	<0.50	2,200	MW-1	5.00
n-Butylbenzene	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
sec-Butylbenzene	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Ethylbenzene	1,100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1,100	MW-1	700
Isopropylbenzene	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
MTBE	<200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			NE
Naphthalene	<600	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0			NE
n-Propylbenzene	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	200	MW-1	NE
Toluene	8,600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8,600	MW-1	1,000
1,2,4-Trimethylbenzene	560	<1.0	<1.0	<1.0	<i>3.50</i>	<1.0	<1.0	560	MW-1	NE
1,3,5-Trimethylbenzene	210	<1.0	<1.0	<1.0	<i>1.50</i>	<1.0	<1.0	210	MW-1	NE
Xylenes	2,000	<2.0	<2.0	<2.0	90	<2.0	<2.0	2,000	MW-1	10,000

All values reported in micrograms per liter.

All samples analyzed using EPA Methods 8015D and 8260B.

Bolded and italicized values exceed method reporting limits.

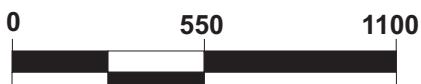
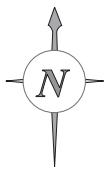
Bolded and shaded values exceed regulatory standards.

MCLs is Maximum Contaminant Levels.

NE means regulatory value not established.

Table 4.
 Page 1 of 1

FIGURES



Scale: 1 inch = 550 feet

Note: All locations and boundaries are approximate.

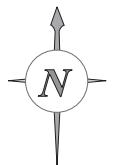


SITE VICINITY MAP

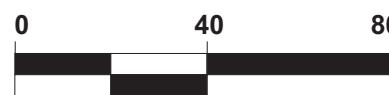
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

Project # 2789
April 2014

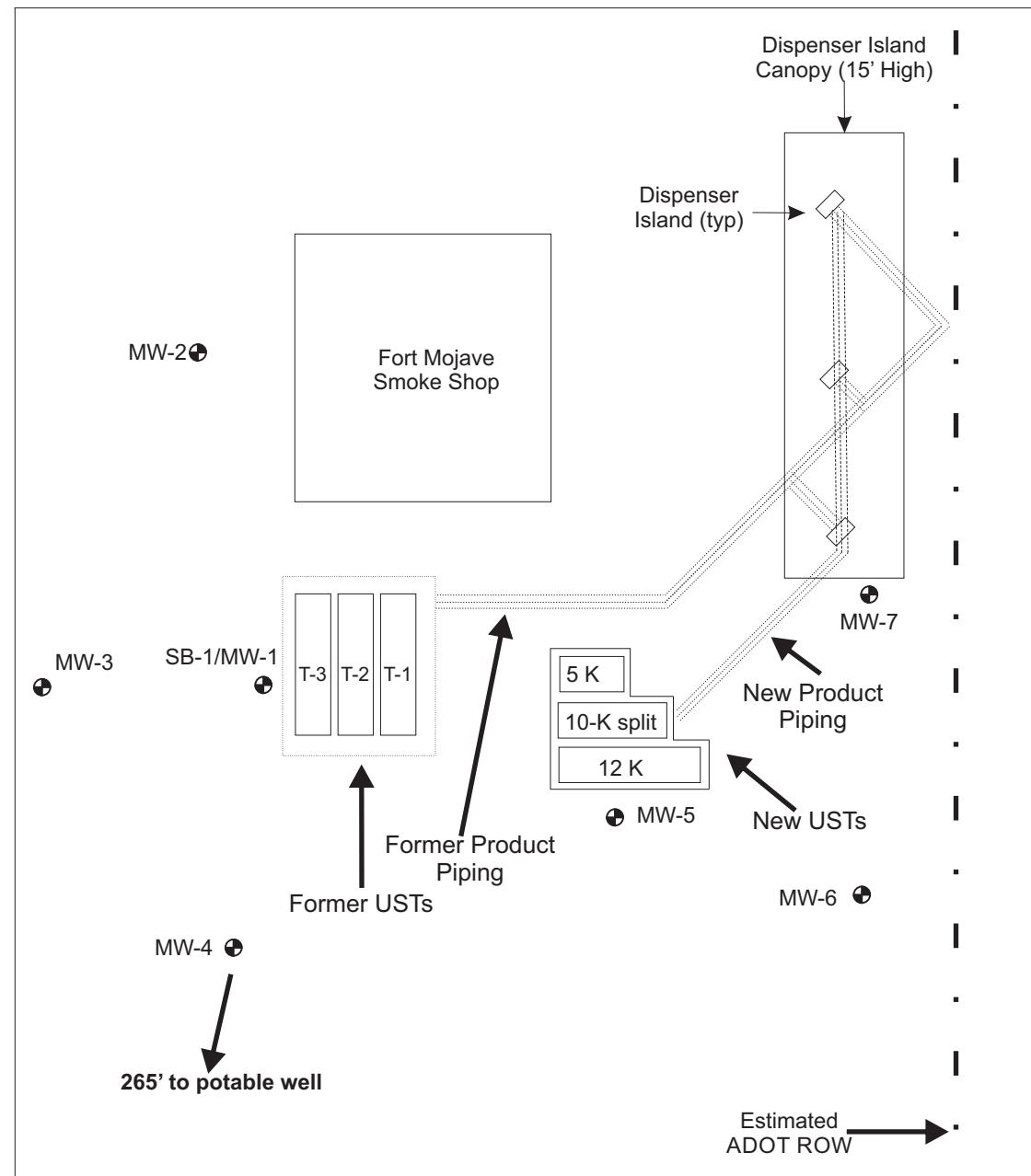
FIGURE
1



Willow Drive



Spirit Mountain
RV Park



LEGEND

● MW-1 Groundwater Monitoring Well and ID Number

Note: All locations and boundaries are approximate.

SITE PLAN

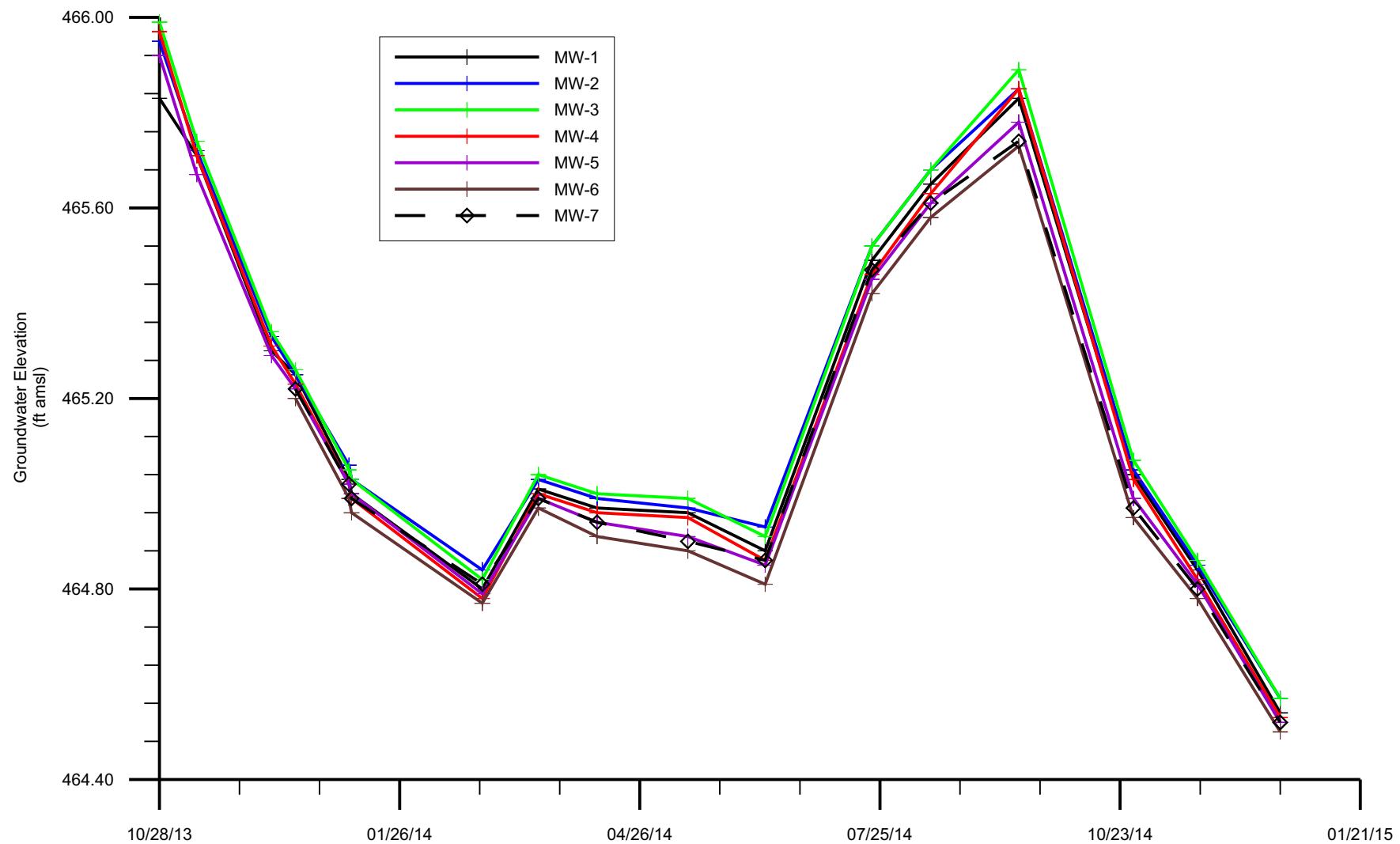
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

FIGURE
2

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Project # 2789
April 2014

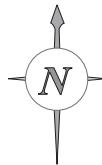


HYDROGRAPH

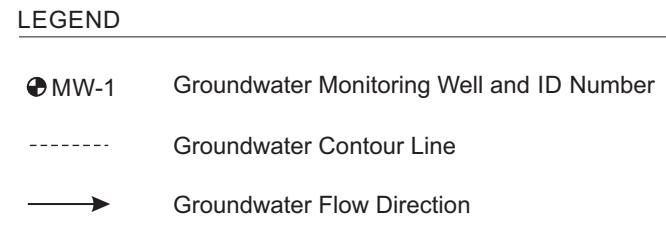
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

Project # 2789
January 2015

FIGURE
3



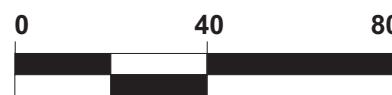
Willow Drive



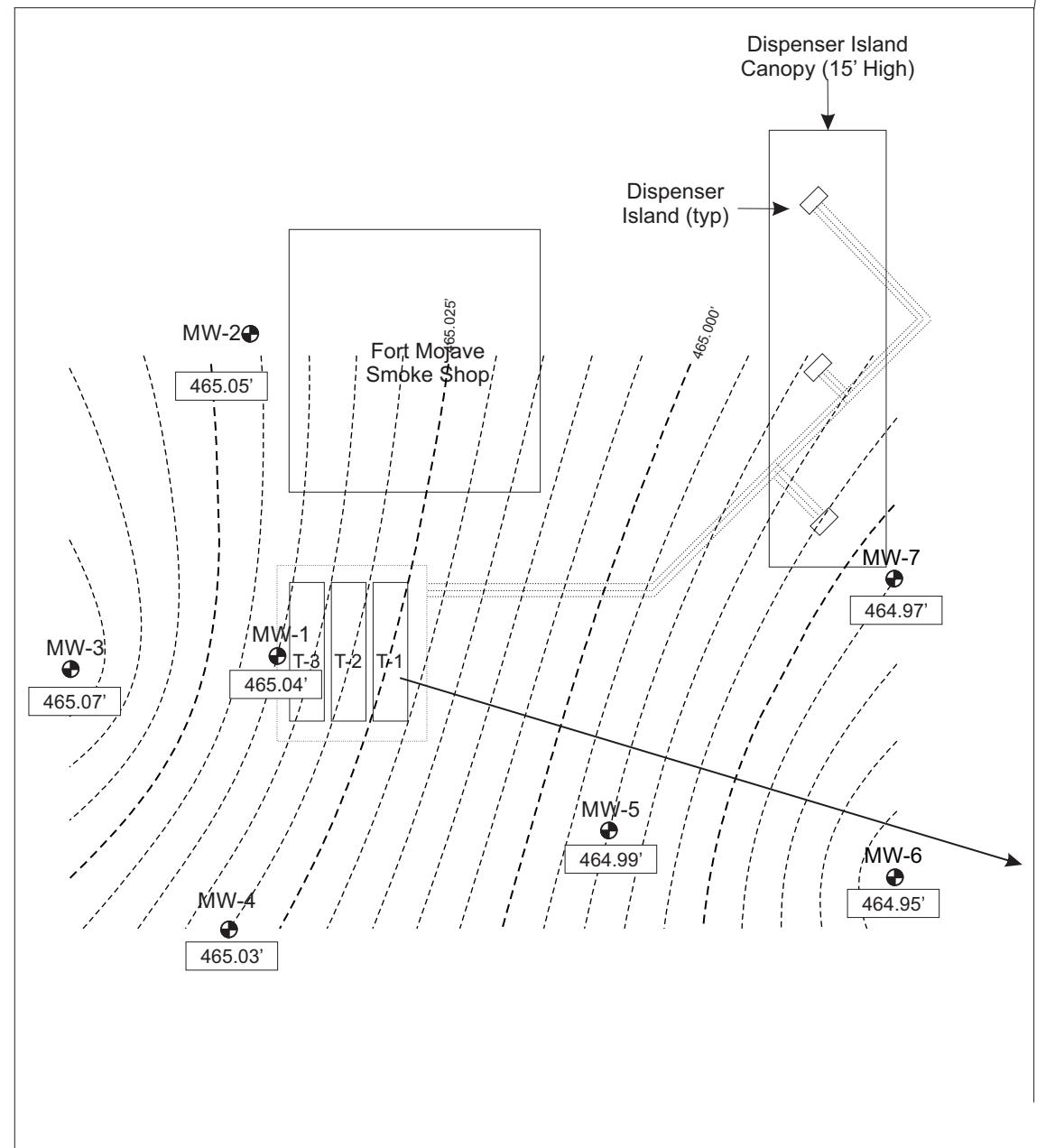
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 73.3° East @ 0.00056 feet per foot.



Spirit Mountain
RV Park



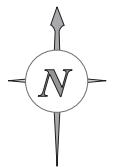
Note: All locations and boundaries are approximate.

FIGURE
4

OCTOBER 28' 2014 GROUNDWATER
CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

EN
TECH
ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
January 2015



Willow Drive

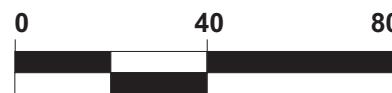
LEGEND

- MW-1 Groundwater Monitoring Well and ID Number
- - - Groundwater Contour Line
- Groundwater Flow Direction

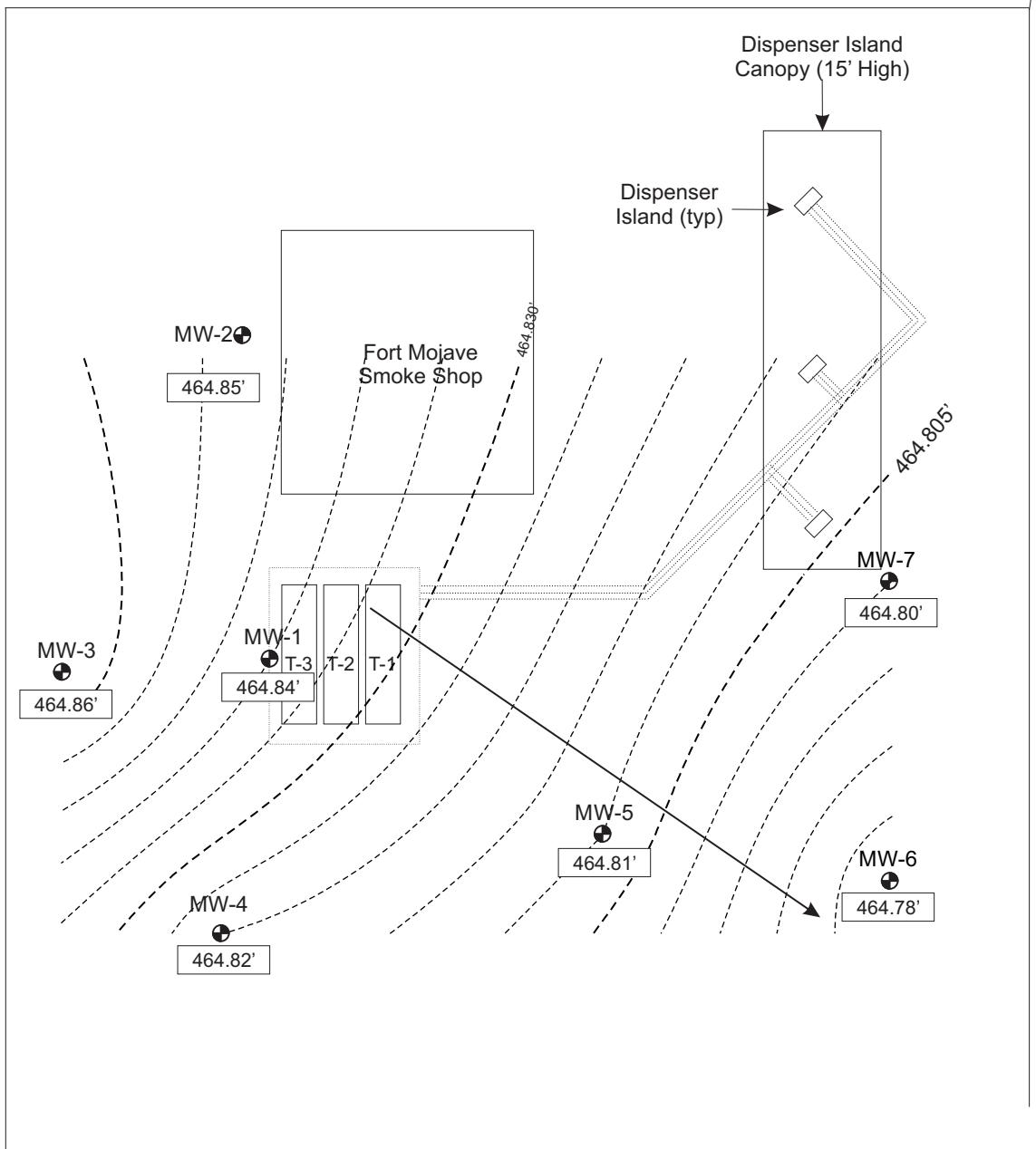
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 55.5° East @ 0.00037 feet per foot.



Spirit Mountain
RV Park



US HWY 95

Note: All locations and boundaries are approximate.

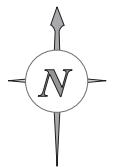
FIGURE
5

NOVEMBER 21, 2014
GROUNDWATER CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440

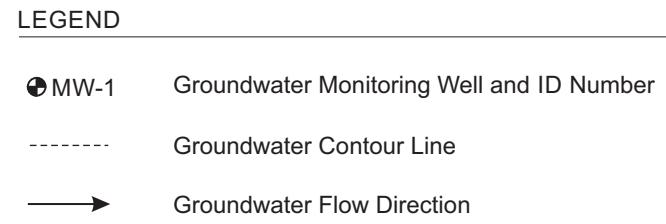


ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
January 2015



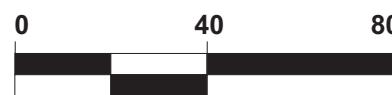
Willow Drive



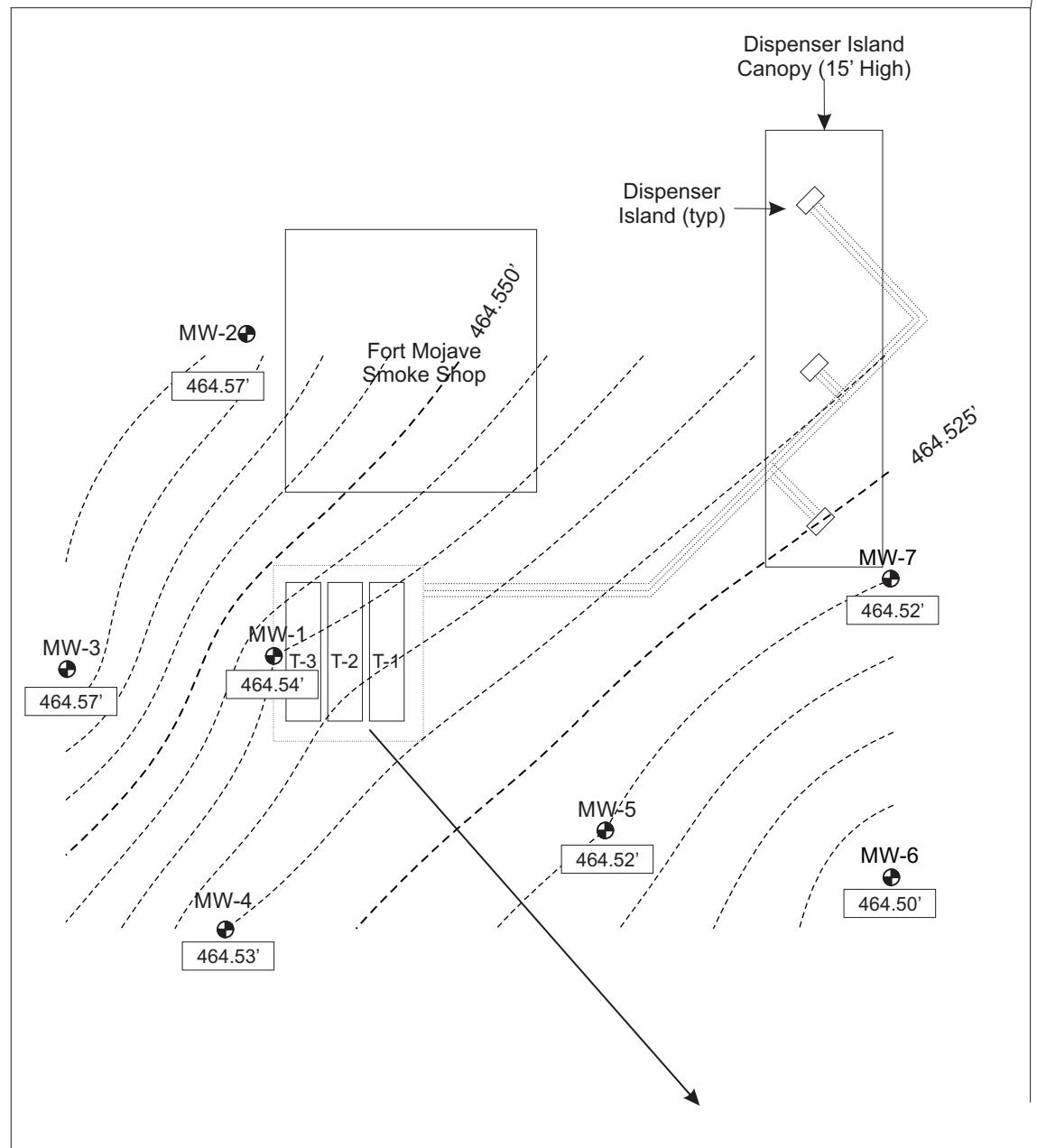
NOTES

Contour interval is 0.005.

Average groundwater gradient is
South 41.3° East @ 0.00037 feet per foot.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

US HWY 95

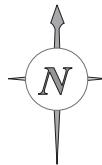
FIGURE
6

DECEMBER 22, 2014
GROUNDWATER CONTOUR MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440



ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
January 2015



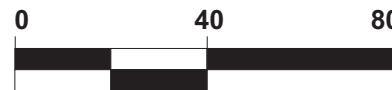
Willow Drive

LEGEND

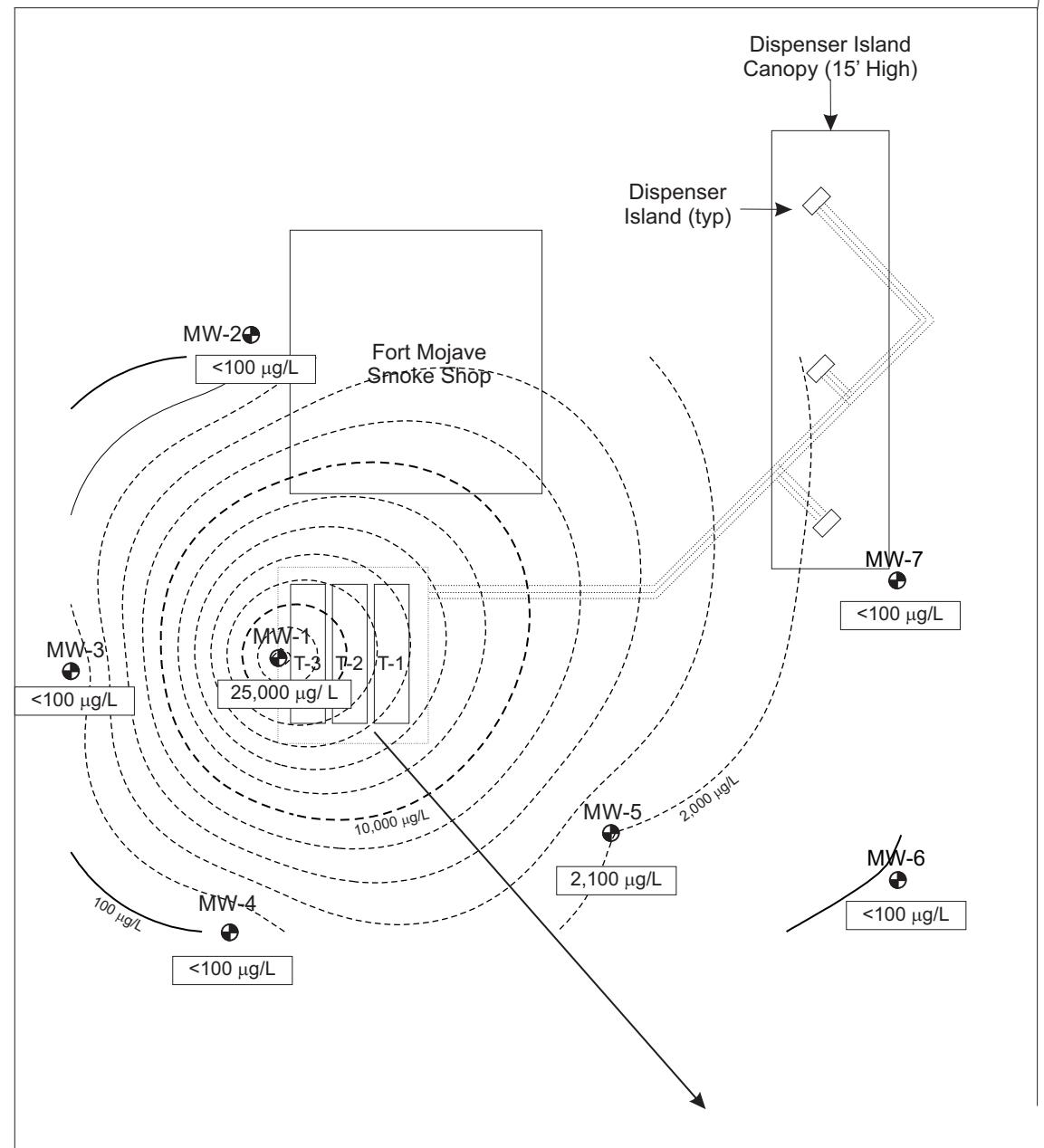
- MW-1 Groundwater Monitoring Well and ID Number
- - - Isoconcentration Line
- Groundwater Flow Direction

NOTES

Contour interval is 2,000 µg/L except where noted.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

US HWY 95

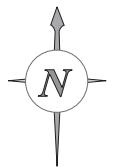
FIGURE
7

DECEMBER 22, 2014 GRO
ISOCONCENTRATION MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440



ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
January 2015



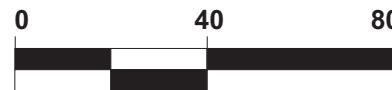
Willow Drive

LEGEND

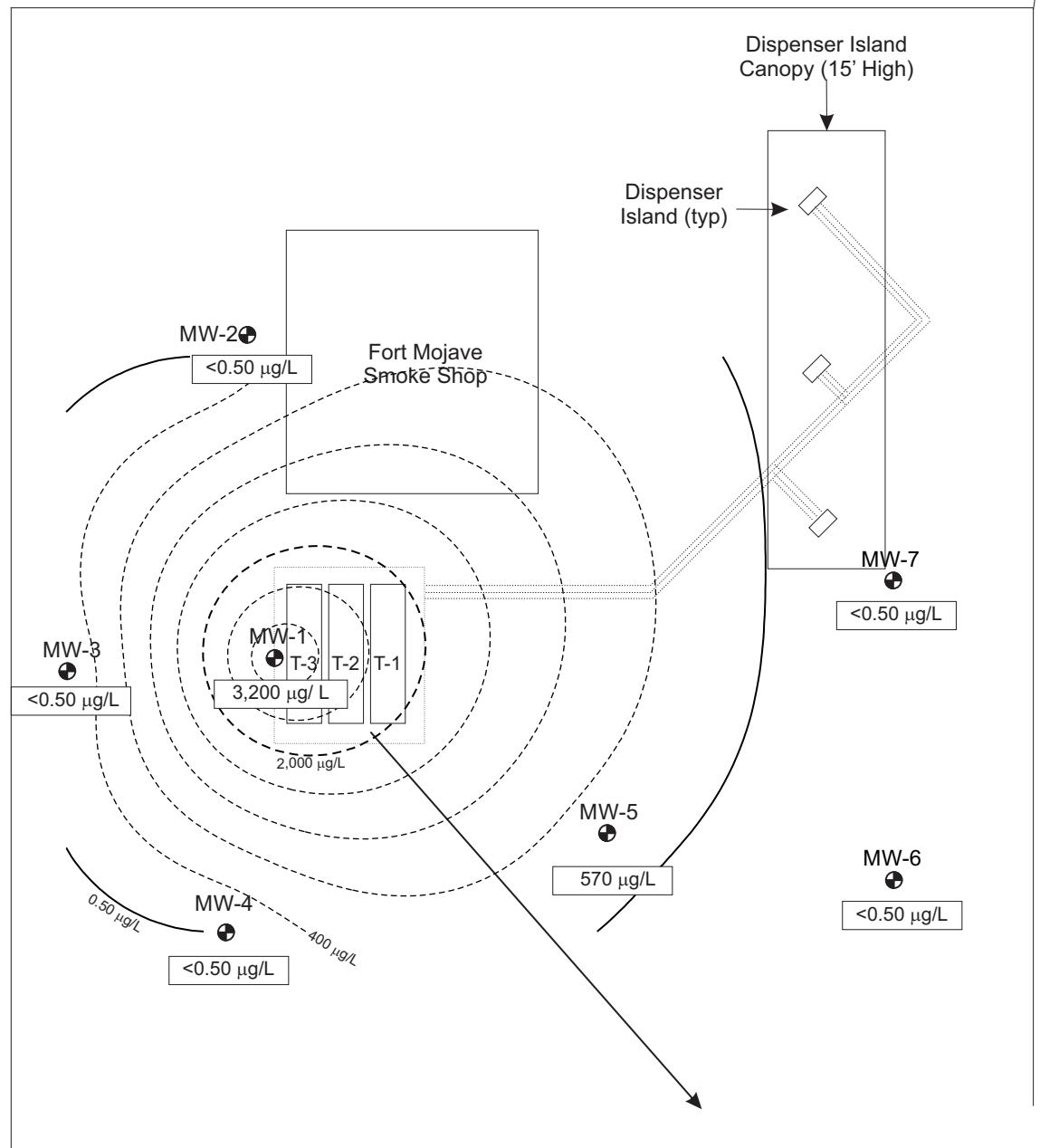
- MW-1 Groundwater Monitoring Well and ID Number
- - - Isoconcentration Line
- Groundwater Flow Direction

NOTES

Contour interval is 400 µg/L except where noted.



Spirit Mountain
RV Park



Note: All locations and boundaries are approximate.

FIGURE
8

DECEMBER 22, 2014 BENZENE
ISOCONCENTRATION MAP
Fort Mojave Smoke Shop
8501 South Highway 95
Mohave Valley, Arizona 86440



ENVIRONMENTAL TECHNOLOGY, INC.

Project # 2789
January 2015

APPENDIX A. Laboratory Reports & Chain-of-Custody Documentation



Orange Coast Analytical, Inc.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

4620 East Elwood Street, Suite 4 Phoenix, AZ 85040

(480) 736-0960

Laboratory Certification (ADHS) No.: AZ0558, AZ0646
Expiration Date: 2015

Laboratory Director's Name:
Mark Noorani

Client: EnTech

Laboratory Reference: ENT AZ9210

Project Name: Fort Mojave Smoke Shop

Project Number: 2789

Date Received: 12/23/2014

Date Reported: 12/31/2014

Chain of Custody Received:

Analytical Method: 8015D, 8260B,



Mark Noorani, Laboratory Director

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
MW-2	AZ9210-001	12/23/2014	12/22/2014	Water
MW-3	AZ9210-002	12/23/2014	12/22/2014	Water
MW-4	AZ9210-003	12/23/2014	12/22/2014	Water
MW-6	AZ9210-004	12/23/2014	12/22/2014	Water
MW-7	AZ9210-005	12/23/2014	12/22/2014	Water
MW-5	AZ9210-006	12/23/2014	12/22/2014	Water
MW-1	AZ9210-007	12/23/2014	12/22/2014	Water
Trip Blank	AZ9210-008	12/23/2014		Water

Mr. Carney Miller
 EnTech
 2541 E. University Dr
 Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
 Project Name: Fort Mojave Smoke Shop
 Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-2	AZ9210-001	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>		<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>		<u>CAS #</u>
Benzene		71-43-2	<0.50	Isopropylbenzene		98-82-8
Bromobenzene		108-86-1	<1.0	4-Isopropyltoluene		99-87-6
Bromoform		74-97-5	<1.0	Methyl t-butyl ether (MTBE)		1634-04-4
Bromochloromethane		75-27-4	<1.0	Methylene chloride		75-09-2
Bromodichloromethane		75-25-2	<1.0	Naphthalene		91-20-3
Bromomethane		74-83-9	<5.0	n-Propylbenzene		103-65-1
n-Butylbenzene		104-51-8	<1.0	Styrene		100-42-5
sec-Butylbenzene		135-98-8	<1.0	1,1,2,2-Tetrachloroethane		79-34-5
tert-Butylbenzene		98-06-6	<1.0	Tetrachloroethene		127-18-4
Carbon Disulfide		75-15-0	<0.50	Toluene		108-88-3
Carbon tetrachloride		56-23-5	<1.0	1,2,3-Trichlorobenzene		87-61-6
Chlorobenzene		108-90-7	<1.0	1,1,1-Trichloroethane		71-55-6
Chloroethane		75-00-3	<5.0	1,1,2-Trichloroethane		79-00-5
Chloroform		67-66-3	<1.0	Trichloroethene		79-01-6
Chloromethane		74-87-3	<5.0	Trichlorofluoromethane		75-69-4
2-Chlorotoluene		95-49-8	<1.0	1,2,3-Trichloropropane		96-18-4
4-Chlorotoluene		106-43-4	<1.0	1,2,4-Trimethylbenzene		95-63-6
Dibromochloromethane		124-48-1	<1.0	1,3,5-Trimethylbenzene		108-67-8
1,2-Dibromoethane		106-93-4	<1.0	Vinyl chloride		75-01-4
1,2-Dichlorobenzene		95-50-1	<1.0	Xylenes, Total		1330-20-7
1,3-Dichlorobenzene		541-73-1	<1.0			<2.0
1,4-Dichlorobenzene		106-46-7	<1.0			
Dichlorodifluoromethane		75-71-8	<2.0			
1,1-Dichloroethane		75-34-3	<1.0			
1,2-Dichloroethane		107-06-2	<1.0			
1,1-Dichloroethene		75-35-4	<1.0			
cis-1,2-Dichloroethene		156-59-2	<1.0			
trans-1,2-Dichloroethene		156-60-5	<1.0			
1,2-Dichloropropane		78-87-5	<1.0			
1,3-Dichloropropane		142-28-9	<1.0			
2,2-Dichloropropane		594-20-7	<1.0			
1,1-Dichloropropene		563-58-6	<1.0			
cis-1,3-Dichloropropene		10061-01-5	<1.0			
trans-1,3-Dichloropropene		10061-02-6	<1.0			
Ethylbenzene		100-41-4	<1.0			
n-Hexane		110-54-3	<1.0			
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>		<u>Dilution Factor:</u>	<u>1</u>	
Dibromofluoromethane:	95	53-130 %		Data Qualifiers:	T4,	
Toluene-d8:	93	69-144 %				
4-Bromofluorobenzene:	98	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-3	AZ9210-002	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>		<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>		<u>CAS #</u>
Benzene		71-43-2	<0.50	Isopropylbenzene		98-82-8
Bromobenzene		108-86-1	<1.0	4-Isopropyltoluene		99-87-6
Bromoform		74-97-5	<1.0	Methyl t-butyl ether (MTBE)		1634-04-4
Bromochloromethane		75-27-4	<1.0	Methylene chloride		75-09-2
Bromodichloromethane		75-25-2	<1.0	Naphthalene		91-20-3
Bromomethane		74-83-9	<5.0	n-Propylbenzene		103-65-1
n-Butylbenzene		104-51-8	<1.0	Styrene		100-42-5
sec-Butylbenzene		135-98-8	<1.0	1,1,2,2-Tetrachloroethane		79-34-5
tert-Butylbenzene		98-06-6	<1.0	Tetrachloroethene		127-18-4
Carbon Disulfide		75-15-0	<0.50	Toluene		108-88-3
Carbon tetrachloride		56-23-5	<1.0	1,2,3-Trichlorobenzene		87-61-6
Chlorobenzene		108-90-7	<1.0	1,1,1-Trichloroethane		71-55-6
Chloroethane		75-00-3	<5.0	1,1,2-Trichloroethane		79-00-5
Chloroform		67-66-3	<1.0	Trichloroethene		79-01-6
Chloromethane		74-87-3	<5.0	Trichlorofluoromethane		75-69-4
2-Chlorotoluene		95-49-8	<1.0	1,2,3-Trichloropropane		96-18-4
4-Chlorotoluene		106-43-4	<1.0	1,2,4-Trimethylbenzene		95-63-6
Dibromochloromethane		124-48-1	<1.0	1,3,5-Trimethylbenzene		108-67-8
1,2-Dibromoethane		106-93-4	<1.0	Vinyl chloride		75-01-4
1,2-Dichlorobenzene		95-50-1	<1.0	Xylenes, Total		1330-20-7
1,3-Dichlorobenzene		541-73-1	<1.0			<2.0
1,4-Dichlorobenzene		106-46-7	<1.0			
Dichlorodifluoromethane		75-71-8	<2.0			
1,1-Dichloroethane		75-34-3	<1.0			
1,2-Dichloroethane		107-06-2	<1.0			
1,1-Dichloroethene		75-35-4	<1.0			
cis-1,2-Dichloroethene		156-59-2	<1.0			
trans-1,2-Dichloroethene		156-60-5	<1.0			
1,2-Dichloropropane		78-87-5	<1.0			
1,3-Dichloropropane		142-28-9	<1.0			
2,2-Dichloropropane		594-20-7	<1.0			
1,1-Dichloropropene		563-58-6	<1.0			
cis-1,3-Dichloropropene		10061-01-5	<1.0			
trans-1,3-Dichloropropene		10061-02-6	<1.0			
Ethylbenzene		100-41-4	<1.0			
n-Hexane		110-54-3	<1.0			
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>		<u>Dilution Factor:</u>	<u>1</u>	
Dibromofluoromethane:	94	53-130 %		Data Qualifiers:	T4,	
Toluene-d8:	93	69-144 %				
4-Bromofluorobenzene:	98	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-4	AZ9210-003	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>		<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>		<u>CAS #</u>
Benzene		71-43-2	<0.50	Isopropylbenzene		98-82-8
Bromobenzene		108-86-1	<1.0	4-Isopropyltoluene		99-87-6
Bromoform		74-97-5	<1.0	Methyl t-butyl ether (MTBE)		1634-04-4
Bromochloromethane		75-27-4	<1.0	Methylene chloride		75-09-2
Bromodichloromethane		75-25-2	<1.0	Naphthalene		91-20-3
Bromomethane		74-83-9	<5.0	n-Propylbenzene		103-65-1
n-Butylbenzene		104-51-8	<1.0	Styrene		100-42-5
sec-Butylbenzene		135-98-8	<1.0	1,1,2,2-Tetrachloroethane		79-34-5
tert-Butylbenzene		98-06-6	<1.0	Tetrachloroethene		127-18-4
Carbon Disulfide		75-15-0	<0.50	Toluene		108-88-3
Carbon tetrachloride		56-23-5	<1.0	1,2,3-Trichlorobenzene		87-61-6
Chlorobenzene		108-90-7	<1.0	1,1,1-Trichloroethane		71-55-6
Chloroethane		75-00-3	<5.0	1,1,2-Trichloroethane		79-00-5
Chloroform		67-66-3	<1.0	Trichloroethene		79-01-6
Chloromethane		74-87-3	<5.0	Trichlorofluoromethane		75-69-4
2-Chlorotoluene		95-49-8	<1.0	1,2,3-Trichloropropane		96-18-4
4-Chlorotoluene		106-43-4	<1.0	1,2,4-Trimethylbenzene		95-63-6
Dibromochloromethane		124-48-1	<1.0	1,3,5-Trimethylbenzene		108-67-8
1,2-Dibromoethane		106-93-4	<1.0	Vinyl chloride		75-01-4
1,2-Dichlorobenzene		95-50-1	<1.0	Xylenes, Total		1330-20-7
1,3-Dichlorobenzene		541-73-1	<1.0			<2.0
1,4-Dichlorobenzene		106-46-7	<1.0			
Dichlorodifluoromethane		75-71-8	<2.0			
1,1-Dichloroethane		75-34-3	<1.0			
1,2-Dichloroethane		107-06-2	<1.0			
1,1-Dichloroethene		75-35-4	<1.0			
cis-1,2-Dichloroethene		156-59-2	<1.0			
trans-1,2-Dichloroethene		156-60-5	<1.0			
1,2-Dichloropropane		78-87-5	<1.0			
1,3-Dichloropropane		142-28-9	<1.0			
2,2-Dichloropropane		594-20-7	<1.0			
1,1-Dichloropropene		563-58-6	<1.0			
cis-1,3-Dichloropropene		10061-01-5	<1.0			
trans-1,3-Dichloropropene		10061-02-6	<1.0			
Ethylbenzene		100-41-4	<1.0			
n-Hexane		110-54-3	<1.0			
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>		<u>Dilution Factor:</u>	<u>1</u>	
Dibromofluoromethane:	94	53-130 %		Data Qualifiers:	T4,	
Toluene-d8:	93	69-144 %				
4-Bromofluorobenzene:	98	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-6	AZ9210-004	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	
Benzene	71-43-2	<0.50	Isopropylbenzene	98-82-8	<1.0	
Bromobenzene	108-86-1	<1.0	4-Isopropyltoluene	99-87-6	<1.0	
Bromoform	74-97-5	<1.0	Methyl t-butyl ether (MTBE)	1634-04-4	<1.0	
Bromochloromethane	75-27-4	<1.0	Methylene chloride	75-09-2	<5.0	
Bromodichloromethane	75-25-2	<1.0	Naphthalene	91-20-3	<3.0	
Bromomethane	74-83-9	<5.0	n-Propylbenzene	103-65-1	<1.0	
n-Butylbenzene	104-51-8	<1.0	Styrene	100-42-5	<1.0	
sec-Butylbenzene	135-98-8	<1.0	1,1,2,2-Tetrachloroethane	79-34-5	<1.0	
tert-Butylbenzene	98-06-6	<1.0	Tetrachloroethene	127-18-4	<1.0	
Carbon Disulfide	75-15-0	<0.50	Toluene	108-88-3	<1.0	
Carbon tetrachloride	56-23-5	<1.0	1,2,3-Trichlorobenzene	87-61-6	<1.0	
Chlorobenzene	108-90-7	<1.0	1,1,1-Trichloroethane	71-55-6	<1.0	
Chloroethane	75-00-3	<5.0	1,1,2-Trichloroethane	79-00-5	<1.0	
Chloroform	67-66-3	<1.0	Trichloroethene	79-01-6	<1.0	
Chloromethane	74-87-3	<5.0	Trichlorofluoromethane	75-69-4	<2.0	
2-Chlorotoluene	95-49-8	<1.0	1,2,3-Trichloropropane	96-18-4	<1.0	
4-Chlorotoluene	106-43-4	<1.0	1,2,4-Trimethylbenzene	95-63-6	<1.0	
Dibromochloromethane	124-48-1	<1.0	1,3,5-Trimethylbenzene	108-67-8	<1.0	
1,2-Dibromoethane	106-93-4	<1.0	Vinyl chloride	75-01-4	<2.0	
1,2-Dichlorobenzene	95-50-1	<1.0	Xylenes, Total	1330-20-7	<2.0	
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,1-Dichloroethane	75-34-3	<1.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<1.0				
cis-1,2-Dichloroethene	156-59-2	<1.0				
trans-1,2-Dichloroethene	156-60-5	<1.0				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
n-Hexane	110-54-3	<1.0				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	<u>1</u>		
Dibromofluoromethane:	94	53-130 %	Data Qualifiers:	T4,		
Toluene-d8:	92	69-144 %				
4-Bromofluorobenzene:	96	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-7	AZ9210-005	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>		<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>		<u>CAS #</u>
Benzene		71-43-2	<0.50	Isopropylbenzene		98-82-8
Bromobenzene		108-86-1	<1.0	4-Isopropyltoluene		99-87-6
Bromoform		74-97-5	<1.0	Methyl t-butyl ether (MTBE)		1634-04-4
Bromochloromethane		75-27-4	<1.0	Methylene chloride		75-09-2
Bromodichloromethane		75-25-2	<1.0	Naphthalene		91-20-3
Bromomethane		74-83-9	<5.0	n-Propylbenzene		103-65-1
n-Butylbenzene		104-51-8	<1.0	Styrene		100-42-5
sec-Butylbenzene		135-98-8	<1.0	1,1,2,2-Tetrachloroethane		79-34-5
tert-Butylbenzene		98-06-6	<1.0	Tetrachloroethene		127-18-4
Carbon Disulfide		75-15-0	<0.50	Toluene		108-88-3
Carbon tetrachloride		56-23-5	<1.0	1,2,3-Trichlorobenzene		87-61-6
Chlorobenzene		108-90-7	<1.0	1,1,1-Trichloroethane		71-55-6
Chloroethane		75-00-3	<5.0	1,1,2-Trichloroethane		79-00-5
Chloroform		67-66-3	<1.0	Trichloroethene		79-01-6
Chloromethane		74-87-3	<5.0	Trichlorofluoromethane		75-69-4
2-Chlorotoluene		95-49-8	<1.0	1,2,3-Trichloropropane		96-18-4
4-Chlorotoluene		106-43-4	<1.0	1,2,4-Trimethylbenzene		95-63-6
Dibromochloromethane		124-48-1	<1.0	1,3,5-Trimethylbenzene		108-67-8
1,2-Dibromoethane		106-93-4	<1.0	Vinyl chloride		75-01-4
1,2-Dichlorobenzene		95-50-1	<1.0	Xylenes, Total		1330-20-7
1,3-Dichlorobenzene		541-73-1	<1.0			<2.0
1,4-Dichlorobenzene		106-46-7	<1.0			
Dichlorodifluoromethane		75-71-8	<2.0			
1,1-Dichloroethane		75-34-3	<1.0			
1,2-Dichloroethane		107-06-2	<1.0			
1,1-Dichloroethene		75-35-4	<1.0			
cis-1,2-Dichloroethene		156-59-2	<1.0			
trans-1,2-Dichloroethene		156-60-5	<1.0			
1,2-Dichloropropane		78-87-5	<1.0			
1,3-Dichloropropane		142-28-9	<1.0			
2,2-Dichloropropane		594-20-7	<1.0			
1,1-Dichloropropene		563-58-6	<1.0			
cis-1,3-Dichloropropene		10061-01-5	<1.0			
trans-1,3-Dichloropropene		10061-02-6	<1.0			
Ethylbenzene		100-41-4	<1.0			
n-Hexane		110-54-3	<1.0			
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>		<u>Dilution Factor:</u>	<u>1</u>	
Dibromofluoromethane:	94	53-130 %		Data Qualifiers:	T4,	
Toluene-d8:	91	69-144 %				
4-Bromofluorobenzene:	96	60-130 %				

Mr. Carney Miller
 EnTech
 2541 E. University Dr
 Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
 Project Name: Fort Mojave Smoke Shop
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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix		
MW-5	AZ9210-006	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water		
ANALYTE								
Benzene	CAS # 71-43-2	µg/L 570	ANALYTE					
Bromobenzene	108-86-1	<20	Isopropylbenzene	98-82-8	<20			
Bromoform	74-97-5	<20	4-Isopropyltoluene	99-87-6	<20			
Bromochloromethane	75-27-4	<20	Methyl t-butyl ether (MTBE)	1634-04-4	<20			
Bromodichloromethane	75-25-2	<20	Methylene chloride	75-09-2	<100			
Bromomethane	74-83-9	<100	Naphthalene	91-20-3	<60			
n-Butylbenzene	104-51-8	<20	n-Propylbenzene	103-65-1	<20			
sec-Butylbenzene	135-98-8	<20	Styrene	100-42-5	<20			
tert-Butylbenzene	98-06-6	<20	1,1,2,2-Tetrachloroethane	79-34-5	<20			
Carbon Disulfide	75-15-0	<10	Tetrachloroethene	127-18-4	<20			
Carbon tetrachloride	56-23-5	<20	Toluene	108-88-3	<20			
Chlorobenzene	108-90-7	<20	1,2,3-Trichlorobenzene	87-61-6	<20			
Chloroethane	75-00-3	<100	1,1,1-Trichloroethane	71-55-6	<20			
Chloroform	67-66-3	<20	1,1,2-Trichloroethane	79-00-5	<20			
Chloromethane	74-87-3	<100	Trichloroethene	79-01-6	<20			
2-Chlorotoluene	95-49-8	<20	Trichlorofluoromethane	75-69-4	<40			
4-Chlorotoluene	106-43-4	<20	1,2,3-Trichloropropane	96-18-4	<20			
Dibromochloromethane	124-48-1	<20	1,2,4-Trimethylbenzene	95-63-6	140			
1,2-Dibromoethane	106-93-4	<20	1,3,5-Trimethylbenzene	108-67-8	32			
1,2-Dichlorobenzene	95-50-1	<20	Vinyl chloride	75-01-4	<40			
1,3-Dichlorobenzene	541-73-1	<20	Xylenes, Total	1330-20-7	370			
1,4-Dichlorobenzene	106-46-7	<20						
Dichlorodifluoromethane	75-71-8	<40						
1,1-Dichloroethane	75-34-3	<20						
1,2-Dichloroethane	107-06-2	<20						
1,1-Dichloroethene	75-35-4	<20						
cis-1,2-Dichloroethene	156-59-2	<20						
trans-1,2-Dichloroethene	156-60-5	<20						
1,2-Dichloropropane	78-87-5	<20						
1,3-Dichloropropane	142-28-9	<20						
2,2-Dichloropropane	594-20-7	<20						
1,1-Dichloropropene	563-58-6	<20						
cis-1,3-Dichloropropene	10061-01-5	<20						
trans-1,3-Dichloropropene	10061-02-6	<20						
Ethylbenzene	100-41-4	290						
n-Hexane	110-54-3	<20						
<u>Surrogate:</u>	% RC	Acceptable % RC	<u>Dilution Factor:</u> 20					
Dibromofluoromethane:	95	53-130 %	<u>Data Qualifiers:</u> D2, T4,					
Toluene-d8:	93	69-144 %						
4-Bromofluorobenzene:	112	60-130 %						

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-1	AZ9210-007	12/23/2014	12/22/2014	12/28/2014	12/28/2014	Water
<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	
Benzene	71-43-2	3200	Isopropylbenzene	98-82-8	<200	
Bromobenzene	108-86-1	<200	4-Isopropyltoluene	99-87-6	<200	
Bromoform	74-97-5	<200	Methyl t-butyl ether (MTBE)	1634-04-4	<200	
Bromochloromethane	75-27-4	<200	Methylene chloride	75-09-2	<1000	
Bromodichloromethane	75-25-2	<200	Naphthalene	91-20-3	<600	
Bromomethane	74-83-9	<1000	n-Propylbenzene	103-65-1	<200	
n-Butylbenzene	104-51-8	<200	Styrene	100-42-5	<200	
sec-Butylbenzene	135-98-8	<200	1,1,2,2-Tetrachloroethane	79-34-5	<200	
tert-Butylbenzene	98-06-6	<200	Tetrachloroethene	127-18-4	<200	
Carbon Disulfide	75-15-0	<100	Toluene	108-88-3	8900	
Carbon tetrachloride	56-23-5	<200	1,2,3-Trichlorobenzene	87-61-6	<200	
Chlorobenzene	108-90-7	<200	1,1,1-Trichloroethane	71-55-6	<200	
Chloroethane	75-00-3	<1000	1,1,2-Trichloroethane	79-00-5	<200	
Chloroform	67-66-3	<200	Trichloroethene	79-01-6	<200	
Chloromethane	74-87-3	<1000	Trichlorofluoromethane	75-69-4	<400	
2-Chlorotoluene	95-49-8	<200	1,2,3-Trichloropropane	96-18-4	<200	
4-Chlorotoluene	106-43-4	<200	1,2,4-Trimethylbenzene	95-63-6	420	
Dibromochloromethane	124-48-1	<200	1,3,5-Trimethylbenzene	108-67-8	<200	
1,2-Dibromoethane	106-93-4	<200	Vinyl chloride	75-01-4	<400	
1,2-Dichlorobenzene	95-50-1	<200	Xylenes, Total	1330-20-7	2100	
1,3-Dichlorobenzene	541-73-1	<200				
1,4-Dichlorobenzene	106-46-7	<200				
Dichlorodifluoromethane	75-71-8	<400				
1,1-Dichloroethane	75-34-3	<200				
1,2-Dichloroethane	107-06-2	<200				
1,1-Dichloroethene	75-35-4	<200				
cis-1,2-Dichloroethene	156-59-2	<200				
trans-1,2-Dichloroethene	156-60-5	<200				
1,2-Dichloropropane	78-87-5	<200				
1,3-Dichloropropane	142-28-9	<200				
2,2-Dichloropropane	594-20-7	<200				
1,1-Dichloropropene	563-58-6	<200				
cis-1,3-Dichloropropene	10061-01-5	<200				
trans-1,3-Dichloropropene	10061-02-6	<200				
Ethylbenzene	100-41-4	1600				
n-Hexane	110-54-3	<200				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	200		
Dibromofluoromethane:	91	53-130 %	<u>Data Qualifiers:</u>	D2, T4,		
Toluene-d8:	91	69-144 %				
4-Bromofluorobenzene:	107	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Trip Blank	AZ9210-008	12/23/2014		12/28/2014	12/28/2014	Water
<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/L</u>	
Benzene	71-43-2	<0.50	Isopropylbenzene	98-82-8	<1.0	
Bromobenzene	108-86-1	<1.0	4-Isopropyltoluene	99-87-6	<1.0	
Bromoform	74-97-5	<1.0	Methyl t-butyl ether (MTBE)	1634-04-4	<1.0	
Bromochloromethane	75-27-4	<1.0	Methylene chloride	75-09-2	<5.0	
Bromodichloromethane	75-25-2	<1.0	Naphthalene	91-20-3	<3.0	
Bromomethane	74-83-9	<5.0	n-Propylbenzene	103-65-1	<1.0	
n-Butylbenzene	104-51-8	<1.0	Styrene	100-42-5	<1.0	
sec-Butylbenzene	135-98-8	<1.0	1,1,2,2-Tetrachloroethane	79-34-5	<1.0	
tert-Butylbenzene	98-06-6	<1.0	Tetrachloroethene	127-18-4	<1.0	
Carbon Disulfide	75-15-0	<0.50	Toluene	108-88-3	<1.0	
Carbon tetrachloride	56-23-5	<1.0	1,2,3-Trichlorobenzene	87-61-6	<1.0	
Chlorobenzene	108-90-7	<1.0	1,1,1-Trichloroethane	71-55-6	<1.0	
Chloroethane	75-00-3	<5.0	1,1,2-Trichloroethane	79-00-5	<1.0	
Chloroform	67-66-3	<1.0	Trichloroethene	79-01-6	<1.0	
Chloromethane	74-87-3	<5.0	Trichlorofluoromethane	75-69-4	<2.0	
2-Chlorotoluene	95-49-8	<1.0	1,2,3-Trichloropropane	96-18-4	<1.0	
4-Chlorotoluene	106-43-4	<1.0	1,2,4-Trimethylbenzene	95-63-6	<1.0	
Dibromochloromethane	124-48-1	<1.0	1,3,5-Trimethylbenzene	108-67-8	<1.0	
1,2-Dibromoethane	106-93-4	<1.0	Vinyl chloride	75-01-4	<2.0	
1,2-Dichlorobenzene	95-50-1	<1.0	Xylenes, Total	1330-20-7	<2.0	
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,1-Dichloroethane	75-34-3	<1.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<1.0				
cis-1,2-Dichloroethene	156-59-2	<1.0				
trans-1,2-Dichloroethene	156-60-5	<1.0				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
n-Hexane	110-54-3	<1.0				
<u>Surrogate:</u>	<u>% RC</u>	<u>Acceptable % RC</u>	<u>Dilution Factor:</u>	<u>1</u>		
Dibromofluoromethane:	91	53-130 %	Data Qualifiers:	T4,		
Toluene-d8:	93	69-144 %				
4-Bromofluorobenzene:	98	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
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Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBMN1228141			12/28/2014	12/28/2014	Water
ANALYTE						
Benzene	71-43-2	<0.50				
Bromobenzene	108-86-1	<1.0				
Bromoform	74-97-5	<1.0				
Bromochloromethane	75-27-4	<1.0				
Bromomethane	75-25-2	<1.0				
n-Butylbenzene	74-83-9	<5.0				
sec-Butylbenzene	104-51-8	<1.0				
tert-Butylbenzene	135-98-8	<1.0				
Carbon Disulfide	98-06-6	<1.0				
Carbon tetrachloride	75-15-0	<0.50				
Chlorobenzene	56-23-5	<1.0				
Chloroethane	108-90-7	<1.0				
Chloroform	75-00-3	<5.0				
Chloromethane	67-66-3	<1.0				
Chlorotoluene	74-87-3	<5.0				
2-Chlorotoluene	95-49-8	<1.0				
4-Chlorotoluene	106-43-4	<1.0				
Dibromochloromethane	124-48-1	<1.0				
1,2-Dibromoethane	106-93-4	<1.0				
1,2-Dichlorobenzene	95-50-1	<1.0				
1,3-Dichlorobenzene	541-73-1	<1.0				
1,4-Dichlorobenzene	106-46-7	<1.0				
Dichlorodifluoromethane	75-71-8	<2.0				
1,1-Dichloroethane	75-34-3	<1.0				
1,2-Dichloroethane	107-06-2	<1.0				
1,1-Dichloroethene	75-35-4	<1.0				
cis-1,2-Dichloroethene	156-59-2	<1.0				
trans-1,2-Dichloroethene	156-60-5	<1.0				
1,2-Dichloropropane	78-87-5	<1.0				
1,3-Dichloropropane	142-28-9	<1.0				
2,2-Dichloropropane	594-20-7	<1.0				
1,1-Dichloropropene	563-58-6	<1.0				
cis-1,3-Dichloropropene	10061-01-5	<1.0				
trans-1,3-Dichloropropene	10061-02-6	<1.0				
Ethylbenzene	100-41-4	<1.0				
n-Hexane	110-54-3	<1.0				
Surrogate:	% RC	Acceptable % RC		Dilution Factor:	1	
Dibromofluoromethane:	90	53-130 %		Data Qualifiers:	T4,	
Toluene-d8:	98	69-144 %				
4-Bromofluorobenzene:	99	60-130 %				

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

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Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Fuel Hydrocarbons (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-2	AZ9210-001	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			76	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 65-169 %				
<u>Data Qualifiers:</u>	None					
MW-3	AZ9210-002	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			120	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 65-169 %				
<u>Data Qualifiers:</u>	None					
MW-4	AZ9210-003	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			126	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 65-169 %				
<u>Data Qualifiers:</u>	None					
MW-6	AZ9210-004	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			112	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 65-169 %				
<u>Data Qualifiers:</u>	None					
MW-7	AZ9210-005	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			112	
<u>Dilution Factor:</u>	1	* Acceptable Recovery: 65-169 %				
<u>Data Qualifiers:</u>	None					

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

Mr. Carney Miller
EnTech
2541 E. University Dr
Phoenix, AZ, 85034

Lab Reference #: ENT AZ9210
Project Name: Fort Mojave Smoke Shop
Project #: 2789

Volatile Fuel Hydrocarbons (EPA 8015D)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
MW-5	AZ9210-006	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	2100	Bromochlorobenzene			95	
<u>Dilution Factor:</u> 5				* Acceptable Recovery: 65-169 %		
<u>Data Qualifiers:</u> D2,						
MW-1	AZ9210-007	12/23/2014	12/22/2014	12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	25000	Bromochlorobenzene			86	
<u>Dilution Factor:</u> 100				* Acceptable Recovery: 65-169 %		
<u>Data Qualifiers:</u> D2,						
Method Blank	MBTP1230141			12/30/2014	12/30/2014	Water
<u>ANALYTE</u>	<u>µg/L</u>	<u>Surrogate:</u>			<u>% RC*</u>	
TPH as GROs(C4-C12)	<100	Bromochlorobenzene			89	
<u>Dilution Factor:</u> 1				* Acceptable Recovery: 65-169 %		
<u>Data Qualifiers:</u> None						

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

**QA/QC Report
for
Volatile Organic Compounds (EPA 8260B)**
Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 12/28/2014

Date of Analysis: 12/28/2014

Dup Date of Analysis: 12/28/2014

Laboratory Sample #: 19761-005

MS/MSD Qualifiers: None

Reference #: ENT AZ9210

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
1,1-Dichloroethene	0.00	10.0	11.0	12.0	110	120	9	53-136	20	<input type="checkbox"/>
Benzene	0.00	10.0	10.0	12.0	100	120	18	66-134	20	<input type="checkbox"/>
Trichloroethene	0.00	10.0	11.0	12.0	110	120	9	67-138	20	<input type="checkbox"/>
Toluene	0.00	10.0	9.80	11.0	98	110	12	63-130	21	<input type="checkbox"/>
Chlorobenzene	0.00	10.0	10.0	11.0	100	110	10	69-130	20	<input type="checkbox"/>

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	93	91	<input type="checkbox"/>
Toluene-d8	94	93	<input type="checkbox"/>
4-Bromofluorobenzene	100	98	<input type="checkbox"/>

LCS	LCSD	Qual
90	91	<input type="checkbox"/>
94	93	<input type="checkbox"/>
98	100	<input type="checkbox"/>

ACP % RC
53-130
69-144
60-130

Laboratory Control Sample

Date of Extraction: 12/28/2014

Date of Analysis: 12/28/2014

Dup Date of Analysis: 12/28/2014

Laboratory Sample #: MN1228141

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
1,1-Dichloroethene	10.0	9.80	11.0	98	110	12	55-144	20	<input type="checkbox"/>
Benzene	10.0	9.80	10.0	98	100	2	65-141	21	<input type="checkbox"/>
Trichloroethene	10.0	9.60	11.0	96	110	14	70-142	21	<input type="checkbox"/>
Toluene	10.0	9.20	9.80	92	98	6	62-130	20	<input type="checkbox"/>
Chlorobenzene	10.0	9.40	10.0	94	100	6	66-132	20	<input type="checkbox"/>

**QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015D)**
Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 12/30/2014

Date of Analysis: 12/30/2014

Dup Date of Analysis: 12/30/2014

Laboratory Sample #: AZ9210-001

MS/MSD Qualifiers: None

Reference #: ENT AZ9210

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH	0.0	1000	940	920	94	92	2	70-130	20	<input type="checkbox"/>

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Bromochlorobenzene	106	109	<input type="checkbox"/>	109	113	<input type="checkbox"/>	65-169

Laboratory Control Sample

Date of Extraction: 12/30/2014

Date of Analysis: 12/30/2014

Dup Date of Analysis: 12/30/2014

Laboratory Sample #: TP1230141

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH	1000	890	910	89	91	2	70-130	20	<input type="checkbox"/>

Data Qualifier Definitions

Qualifier

D2 = Sample required dilution due to high concentration of target analyte.

T4 = Tentatively identified compound. Concentration is estimated and based on the closest internal standard.

AZ9210-001	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-002	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-003	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-004	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-005	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-006	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-007	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
AZ9210-008	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.
MBMN122814	8260B	Sample was screened as a TIC for 1,3-Butadiene, Cyclohexane, Dicyclopentadiene, Methyl cyclohexane, propylene, and 4-Ethyl toluene. There was no detection.

Definition of terms:

R1	Results Of Laboratory Sample Number
SP CONC	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
%MS	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
%MSD	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$
LCS	Laboratory Control Sample Results
LCSD	Laboratory Control Sample Duplicate Results
%LCS	Percent Recovery Of LCS: $\{(LCS-R1) / SP\} \times 100$
%LCSD	Percent Recovery Of LCSD: $\{(LCSD-R1) / SP\} \times 100$
RPD (for LCS/LCSD)	Relative Percent Difference: $\{(LCS-LCSD) / (LCS+LCSD)\} \times 100 \times 2$
ACP %MS(MSD)	Acceptable Range of Percent
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was required for this analyte; see attached explanation.
ND	Analyte Not Detected



Analysis Request and Chain of Custody Record

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064 Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

Lab Job No: A29204
Page 1 of 1

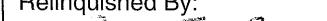
REQUIRED TURN AROUND TIME: Standard: X
72 Hours: _____ 48 Hours: _____ 24 Hours: _____

Total No. of Samples: 8

Method of Shipment:

Hand

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By: 	Date/Time: 12/23/14 1235	Received By: 	Date/Time: 1235 12-23-14	Sample Matrix: DW - Drinking Water GW - Groundwater	WW - Wastewater
Relinquished By:	Date/Time:	Received By: 	Date/Time:		SS - Soil/Solid OT- Other
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:	Sample Integrity: Intact <input checked="" type="checkbox"/> On Ice <input checked="" type="checkbox"/> 20°C <input type="checkbox"/>	

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, with Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup sample.

APPENDIX B. Field Parameter Measurements

Appendix B. Purge Parameter Report

Well ID	Date	Time	Volume	pH	Conductivity	Temperature	Turbidity	Color	Odor
MW-2	12/22/2014	10:04	8.0	6.64	1,108	72.0	Clear	Clear	None
MW-2	12/22/2014	10:08	16.0	6.92	1,106	73.3	Clear	Clear	None
MW-2	12/22/2014	10:12	24.0	7.19	1,108	73.7	Clear	Clear	None
MW-2	12/22/2014	10:16	32.0	7.35	1,101	74.1	Clear	Clear	None
MW-2	12/22/2014	10:20	40.0	7.48	1,107	74.2	Clear	Clear	None
MW-3	12/22/2014	11:04	8.0	7.69	1,450	74.0	Clear	Clear	None
MW-3	12/22/2014	11:08	16.0	7.62	1,431	76.3	Clear	Clear	None
MW-3	12/22/2014	11:12	24.0	7.56	1,442	76.4	Clear	Clear	None
MW-3	12/22/2014	11:16	32.0	7.58	1,433	76.2	Clear	Clear	None
MW-3	12/22/2014	11:20	40.0	7.57	1,435	76.2	Clear	Clear	None
MW-4	12/22/2014	11:44	8.0	7.56	1,701	75.4	Clear	Clear	None
MW-4	12/22/2014	11:48	16.0	7.53	1,657	75.7	Clear	Clear	None
MW-4	12/22/2014	11:52	24.0	7.48	1,655	76.0	Clear	Clear	None
MW-4	12/22/2014	11:56	32.0	7.50	1,658	76.0	Clear	Clear	None
MW-4	12/22/2014	12:00	40.0	7.48	1,654	76.1	Clear	Clear	None
MW-6	12/22/2014	12:22	8.0	7.61	1,591	75.1	Clear	Clear	None
MW-6	12/22/2014	12:26	16.0	7.50	1,576	77.2	Clear	Clear	None
MW-6	12/22/2014	12:30	24.0	7.54	1,570	76.4	Clear	Clear	None
MW-6	12/22/2014	12:34	32.0	7.53	1,575	76.3	Clear	Clear	None
MW-6	12/22/2014	12:38	40.0	7.54	1,563	76.3	Clear	Clear	None
MW-7	12/22/2014	13:00	8.0	7.41	2,016	77.2	Clear	Clear	None
MW-7	12/22/2014	13:04	16.0	7.38	1,987	78.2	Clear	Clear	None
MW-7	12/22/2014	13:08	24.0	7.35	1,990	78.2	Clear	Clear	None
MW-7	12/22/2014	13:12	32.0	7.41	1,983	78.2	Clear	Clear	None

Volume is reported in gallons.

Conductivity is reported in micromhos per cm.

Temperature is reported in degrees Fahrenheit.

Appendix B.
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Appendix B. Purge Parameter Report

Well ID	Date	Time	Volume	pH	Conductivity	Temperature	Turbidity	Color	Odor
MW-7	12/22/2014	13:16	40.0	7.35	1,992	78.3	Clear	Clear	None
MW-5	12/22/2014	13:39	8.0	7.60	1,425	78.1	Clear	Clear	None
MW-5	12/22/2014	13:43	16.0	7.49	1,430	78.5	Clear	Clear	None
MW-5	12/22/2014	13:47	24.0	7.52	1,431	78.5	Clear	Clear	None
MW-5	12/22/2014	13:51	32.0	7.49	1,436	78.3	Clear	Clear	None
MW-5	12/22/2014	13:55	40.0	7.50	1,429	78.4	Clear	Clear	None
MW-1	12/22/2014	14:20	8.0	7.73	1,218	77.9	Clear	Clear	Gasoline
MW-1	12/22/2014	14:24	16.0	7.71	1,231	78.1	Clear	Clear	Gasoline
MW-1	12/22/2014	14:28	24.0	7.65	1,240	78.0	Clear	Clear	Gasoline
MW-1	12/22/2014	14:32	32.0	7.69	1,241	78.0	Clear	Clear	Gasoline
MW-1	12/22/2014	14:36	40.0	7.68	1,248	78.0	Clear	Clear	Gasoline

Volume is reported in gallons.

Conductivity is reported in micromhos per cm.

Temperature is reported in degrees Fahrenheit.

Appendix B.
Page 2 of 2

APPENDIX C. Summary of Groundwater Monitoring Data

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	Naphthalene	MTBE	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			Xylenes	
																		1,2,4-TMB	1,3,5-TMB	1,2,4-XY	1,3,5-XY				
MW-1	10/28/13	482.53	16.73	16.69	0.04	16.70	465.83																		
	11/11/13	482.53	16.84	16.81	0.03	16.82	465.71																		
	12/09/13	482.53	17.23				465.30																		
	12/18/13	482.53	17.32	17.27	0.05	17.28	465.25																		
	01/07/14	482.53	17.50				465.03																		
	01/08/14	482.53	17.53				465.00																		
	02/26/14	482.53	17.73				464.80																		
	03/19/14	482.53	17.52				465.01	32,000	1,400	<100	<100	1,100	100	<100	<300	180	7,900	720	220	4,100					
	04/10/14	482.53	17.56				464.97		720	<100	<100	480	<100	<100	<300	2,600	390	100	1,200						
	05/14/14	482.53	17.57				464.96																		
	06/12/14	482.53	17.65				464.88	25,000	1,800	<100	<100	1,100	110	<100	<300	200	5,600	680	220	2,000					
	07/22/14	482.53	17.04				465.49																		
	08/13/14	482.53	16.88				465.65																		
	09/15/14	482.53	16.70				465.83	33,000	2,200	<200	<200	1,100	<200	<200	<600	200	8,600	560	210	2,000					
	10/28/14	482.53	17.49				465.04																		
	11/21/14	482.53	17.69				464.84																		
	12/22/14	482.53	17.99				464.54	25,000	3,200	<200	<200	1,600	<200	<200	<600	<200	8,900	420	<200	2,100					
MW-2	10/28/13	482.96	17.01				465.95	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	1.00	<1.0	<1.0	<2.0					
	11/11/13	482.96	17.24				465.72																		
	12/09/13	482.96	17.63				465.33																		
	12/18/13	482.96	17.71				465.25	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0					
	01/07/14	482.96	17.90				465.06																		
	01/08/14	482.96	17.93				465.03																		
	02/26/14	482.96	18.12				464.84																		
	03/19/14	482.96	17.93				465.03	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0					

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

All analytical values reported in micrograms per liter.

Bolted and italicized values exceed method reporting limits.

Bolted and shaded values exceed regulatory standards.

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	Naphthalene	MTBE	Toluene	Xylenes
	04/10/14	482.96	17.97				464.99										
	05/14/14	482.96	17.99				464.97										
	06/12/14	482.96	18.03				464.93	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	07/22/14	482.96	17.44				465.52										
	08/13/14	482.96	17.28				465.68										
	09/15/14	482.96	17.11				465.85	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	10/28/14	482.96	17.91				465.05										
	11/21/14	482.96	18.11				464.85										
	12/22/14	482.96	18.39				464.57	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
MW-3	10/28/13	482.58	16.59				465.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	11/11/13	482.58	16.84				465.74										
	12/09/13	482.58	17.24				465.34										
	12/18/13	482.58	17.32				465.26	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	01/07/14	482.58	17.53				465.05										
	01/08/14	482.58	17.55				465.03										
	02/26/14	482.58	17.76				464.82										
	03/19/14	482.58	17.54				465.04	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	04/10/14	482.58	17.58				465.00										
	05/14/14	482.58	17.59				464.99										
	06/12/14	482.58	17.67				464.91	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	07/22/14	482.58	17.06				465.52										
	08/13/14	482.58	16.90				465.68										
	09/15/14	482.58	16.69				465.89	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
	10/28/14	482.58	17.51				465.07										
	11/21/14	482.58	17.72				464.86										

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

All analytical values reported in micrograms per liter.

Bolded and italicized values exceed method reporting limits.

Bolded and shaded values exceed regulatory standards.

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	Toluene	1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Xylenes	
																		1,2,4-TMB	1,3,5-TMB	1,2,4-TMB	1,3,5-TMB		
	12/22/14	482.58	18.01				464.57	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
MW-4	10/28/13	482.69	16.72				465.97	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	11/11/13	482.69	16.98				465.71																
	12/09/13	482.69	17.38				465.31																
	12/18/13	482.69	17.46				465.23	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.69	17.67				465.02																
	01/08/14	482.69	17.70				464.99																
	02/26/14	482.69	17.91				464.78																
	03/19/14	482.69	17.69				465.00	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	04/10/14	482.69	17.73				464.96																
	05/14/14	482.69	17.74				464.95																
	06/12/14	482.69	17.83				464.86	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	07/22/14	482.69	17.23				465.46																
	08/13/14	482.69	17.06				465.63																
	09/15/14	482.69	16.84				465.85	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	10/28/14	482.69	17.66				465.03																
	11/21/14	482.69	17.87				464.82																
	12/22/14	482.69	18.16				464.53	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
MW-5	10/28/13	482.33	16.41				465.92	250	49	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	I.24	<1.0	<1.0	<1.0	<1.0	7.60	
	11/11/13	482.33	16.66				465.67																
	12/09/13	482.33	17.04				465.29																
	12/18/13	482.33	17.11				465.22	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	
	01/07/14	482.33	17.31				465.02																
	01/08/14	482.33	17.33				465.00																
	02/26/14	482.33	17.54				464.79																

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

DTP is depth-to-product in feet.

PT is product thickness in feet.

CDTW is corrected depth-to-water. CDTW = DTW - SG * PT

SG is specific gravity of product.

GWE is groundwater elevation. GWE = SE - DTW or SE - CDTW

All analytical values reported in micrograms per liter.

Bolted and italicized values exceed method reporting limits.

Bolted and shaded values exceed regulatory standards.

Appendix C. Summary of Groundwater Monitoring Data

Well ID	Date	SE	DTW	DTP	PT	CDTW	GWE	GRO	Benzene	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene	MTBE	Naphthalene	n-Propylbenzene	1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			Xylenes
	03/19/14	482.33	17.34				464.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	04/10/14	482.33	17.39				464.94		<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	05/14/14	482.33	17.42				464.91																
	06/12/14	482.33	17.48				464.85	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	07/22/14	482.33	16.88				465.45																
	08/13/14	482.33	16.72				465.61																
	09/15/14	482.33	16.55				465.78	<i>170</i>	<i>22</i>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<i>3.50</i>	<i>1.50</i>	<i>90</i>		
	10/28/14	482.33	17.34				464.99																
	11/21/14	482.33	17.52				464.81																
	12/22/14	482.33	17.81				464.52	<i>2,100</i>	<i>570</i>	<20	<20	<i>290</i>	<20	<20	<60	<20	<20	<i>140</i>	<i>32</i>	<i>370</i>			
MW-6	12/18/13	481.38	16.18				465.20	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	01/07/14	481.38	16.39				464.99																
	01/08/14	481.38	16.42				464.96																
	02/26/14	481.38	16.61				464.77																
	03/19/14	481.38	16.41				464.97	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	04/10/14	481.38	16.47				464.91																
	05/14/14	481.38	16.50				464.88																
	06/12/14	481.38	16.57				464.81	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	07/22/14	481.38	15.96				465.42																
	08/13/14	481.38	15.80				465.58																
	09/15/14	481.38	15.65				465.73	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0		
	10/28/14	481.38	16.43				464.95																
	11/21/14	481.38	16.60				464.78																
	12/22/14	481.38	16.88				464.50	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0		
MW-7	12/18/13	481.68	16.46				465.22	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<2.0		

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	01/07/14	481.68	16.66				465.02												
	01/08/14	481.68	16.69				464.99												
	02/26/14	481.68	16.87				464.81												
	03/19/14	481.68	16.69				464.99	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0
	04/10/14	481.68	16.74				464.94												
	05/14/14	481.68	16.78				464.90												
	06/12/14	481.68	16.82				464.86	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0
	07/22/14	481.68	16.21				465.47												
	08/13/14	481.68	16.07				465.61												
	09/15/14	481.68	15.94				465.74	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0
	10/28/14	481.68	16.71				464.97												
	11/21/14	481.68	16.88				464.80												
	12/22/14	481.68	17.16				464.52	<100	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<2.0

SE is surveyed elevation in feet above mean sea level.

DTW is depth-to-water in feet.

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